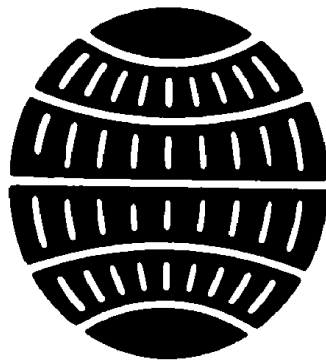


CHAPTER 29



ELECTRICIAN'S MATE (EM)

NAVPERS 18068-29F

CH-43

ELECTRICIAN'S MATE (NUCLEAR) EM(NUC) TABLE OF CONTENTS

SCOPE OF RATING	EM-4(N)
GENERAL INFORMATION	EM-5(N)
SUBMARINE PROPULSION PLANT ELECTRICAL OPERATOR	EM-6(N)
AUXILIARY ELECTRICAL EQUIPMENT	EM-6(N)
CASUALTY CONTROL	EM-11(N)
CIRCUIT BREAKERS	EM-11(N)
ELECTRICAL INSTALLATIONS	EM-12(N)
HOUSEKEEPING AND MACHINERY ANALYSIS	EM-12(N)
LIGHTING SYSTEMS	EM-13 (N)
MOTORS AND GENERATORS	EM-13(N)
POWER DISTRIBUTION	EM-15(N)
REACTOR PLANT ASSOCIATED EQUIPMENT	EM-17(N)
SHIP SECURITY	EM-17(N)
STEAM PLANT ASSOCIATED EQUIPMENT	EM-18(N)
TECHNICAL ADMINISTRATION	EM-19(N)
SUBMARINE PROPULSION PLANT ELECTRICAL SUPERVISOR	EM-21(N)
AUXILIARY ELECTRICAL EQUIPMENT	EM-21(N)
CASUALTY CONTROL	EM-21(N)
CIRCUIT BREAKERS	EM-21(N)
HOUSEKEEPING AND MACHINERY ANALYSIS	EM-21(N)
MOTORS AND GENERATORS	EM-21(N)
POWER DISTRIBUTION	EM-22(N)
REACTOR PLANT ASSOCIATED EQUIPMENT	EM-22(N)
TECHNICAL ADMINISTRATION	EM-22(N)
SUBMARINE PROPULSION PLANT ELECTRICAL MANAGER	EM-23(N)
CASUALTY CONTROL	EM-23(N)
ELECTRICAL INSTALLATIONS	EM-23(N)
TECHNICAL ADMINISTRATION	EM-23(N)
SURFACE PROPULSION PLANT ELECTRICAL OPERATOR	EM-24(N)
AUXILIARY ELECTRICAL EQUIPMENT	EM-24(N)
CASUALTY CONTROL	EM-27(N)
CIRCUIT BREAKERS	EM-27(N)
ELECTRICAL INSTALLATIONS	EM-28(N)
HOUSEKEEPING AND MACHINERY ANALYSIS	EM-28(N)
LIGHTING SYSTEMS	EM-28(N)
MOTORS AND GENERATORS	EM-28(N)
POWER DISTRIBUTION	EM-30(N)

ELECTRICIAN'S MATE (NUCLEAR) EM(NUC) TABLE OF CONTENTS (CONT)

REACTOR PLANT ASSOCIATED EQUIPMENT	EM-31(N)
SHIP SECURITY	EM-32(N)
STEAM PLANT ASSOCIATED EQUIPMENT	EM-32(N)
TECHNICAL ADMINISTRATION	EM-33(N)
SURFACE PROPULSION PLANT ELECTRICAL SUPERVISOR	EM-35(N)
AUXILIARY ELECTRICAL EQUIPMENT	EM-35(N)
CASUALTY CONTROL	EM-35(N)
CIRCUIT BREAKERS	EM-35(N)
HOUSEKEEPING AND MACHINERY ANALYSIS	EM-35(N)
MOTORS AND GENERATORS	EM-35(N)
POWER DISTRIBUTION	EM-36(N)
REACTOR PLANT ASSOCIATED EQUIPMENT	EM-36(N)
TECHNICAL ADMINISTRATION	EM-36(N)
SURFACE PROPULSION PLANT ELECTRICAL MANAGER	EM-37(N)
CASUALTY CONTROL	EM-37(N)
ELECTRICAL INSTALLATIONS	EM-37(N)
POWER DISTRIBUTION	EM-37(N)
REACTOR PLANT ASSOCIATED EQUIPMENT	EM-37(N)
TECHNICAL ADMINISTRATION	EM-37(N)

NAVY ENLISTED OCCUPATIONAL STANDARDS

FOR

ELECTRICIAN'S MATE(NUCLEAR) EM(NUC)



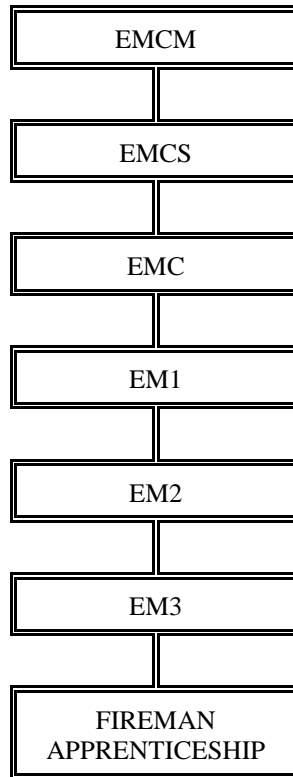
SCOPE OF RATING

Electrician's Mates (Nuclear) EM(NUC) stand watch on generators, switchboards, control equipment, electrical equipment and shutdown reactor plants; operate and perform organizational and intermediate maintenance on power and lighting circuits, electrical fixtures, motors, generators, voltage and frequency regulators, controllers, distribution switchboards, and other electrical equipment; test for short circuits, grounds or other casualties; and rebuild electrical equipment, including solid state circuitry elements in an electrical shop.

These Occupational Standards are to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) as Chapter 29.

GENERAL INFORMATION

CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories can be found in OPNAVINST 1420.1.

For rating entry requirements, refer to MILPERSMAN 1306-500, 1306-502, 1306-504, and 1306-618.

SAFETY

The observance of proper safety precautions in all areas is an integral part of each billet and the responsibility of every Sailor; therefore, it is a universal requirement for all ratings.

Job Title**Submarine Propulsion Plant Electrical Operator****Job Code****003777****Job Family**

Production

NOC

5100-8013.00

Short Title (30 Characters)

SUB PROPULSION PLANT ELECT OP

Short Title (10 Characters)

SS PPE OP

Pay Plan

Enlisted

Career Field

EM(NUC)

Proficiency Level

A/J

Other Relationships and Rules:

NEC 3354

Job Description

Submarine Propulsion Plant Electrical Operators perform operations and basic preventive maintenance of electrical distribution systems, motors and controllers, electrical generators, lighting systems, alarm and indicating systems, machinery vibration analysis equipment, throttle control systems, and other electrical and electronic support equipment. They possess a thorough understanding of reactor, electrical, and mechanical theory involved in the operation of nuclear reactors, steam plants, and auxiliary equipment. They also possess a detailed knowledge of chemistry and radiological controls associated with the nuclear reactor. Electrical Operators supervise operations of the shutdown reactor plant. This job performs the critical work functions to move naval tactical forces and repair/maintain equipment.

DoD Relationship**Title and Group:**Nuclear Power
166**Code and Area:**166100
16**O*NET Relationship****Title and SOC Code:**Power Plant Operators
51-8013.00**Name and Family Code:**Production
51**AUXILIARY ELECTRICAL EQUIPMENT****Paygrade**

E4

Task Type

CORE

Task Statements

Adjust alarm setpoints

SkillsSystems Evaluation
Operation Monitoring**Abilities**Auditory Attention
Reaction Time

E5

CORE

Adjust control panel interlocks

Systems Evaluation
Operation MonitoringManual Dexterity
Reaction Time

E5

CORE

Adjust control panel operating mechanisms

Systems Evaluation
Operation MonitoringArm-Hand Steadiness
Reaction Time

E5

CORE

Adjust control panel operating set points and limits

Systems Evaluation
Operation MonitoringAuditory Attention
Reaction Time

E4

CORE

Clean alarm and indicating panels

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean atmosphere control equipment electrical components

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean electrically operated valve components

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean ultrasonic cleaner components

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean control panel cabinets

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean control panel operating mechanisms

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean air compressor electrical components

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean air conditioning system electrical components

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean Collection, Holding, and Transfer (CHT) electrical components

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean dehydrator electrical components

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4	CORE	Clean distilling plant electrical components	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean refrigeration system electrical components	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean ships heating system electrical components	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean welding equipment electrical components	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean electrical panel components	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean electrical panel interiors	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean electrostatic precipitators	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean galley equipment electrical components	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean laundry equipment	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean Programmable Logic Controllers (PLC)	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean sensing and control electrical devices	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean soldered electrical connections	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Inspect alarm and indicating systems	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect atmosphere control equipment electrical components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect electrically operated valve components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect ultrasonic cleaner components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect control panel operating mechanisms	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect control panel wiring and connections	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect air compressor electrical components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect air conditioning system electrical components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect Collection, Holding, and Transfer (CHT) electrical components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect dehydrator electrical components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect distilling plant electrical components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>

E4	CORE	Inspect refrigeration system electrical components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect ships heating electrical components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect welding equipment electrical components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect electrical panel components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect electrostatic precipitators	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect galley equipment electrical components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect laundry equipment	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect Programmable Logic Controllers (PLC)	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect sensing and control electrical devices	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect soldered electrical connections	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Operate alarm and indicating systems	<i>Operation and Control</i>	<i>Hearing Sensitivity</i>
			<i>Operation Monitoring</i>	<i>Near Vision</i>
E4	CORE	Operate Interior Communications (IC) equipment	<i>Operation and Control</i>	<i>Arm-Hand Steadiness</i>
			<i>Operation Monitoring</i>	<i>Manual Dexterity</i>
E4	CORE	Operate submarine habitability systems	<i>Operation and Control</i>	<i>Arm-Hand Steadiness</i>
			<i>Operation Monitoring</i>	<i>Manual Dexterity</i>
E5	CORE	Repair alarm and indicating systems	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E5	CORE	Repair atmosphere control equipment	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Repair electrically operated valve components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Repair ultrasonic cleaner components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E5	CORE	Repair electrical circuits	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E5	CORE	Repair electrical components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Repair air compressor electrical components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Repair air conditioning electrical components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Repair Collection, Holding, and Transfer (CHT) electrical components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Repair dehydrator electrical components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>

E4	CORE	Repair distilling plant electrical components	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Repair refrigeration electrical components	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Repair ships heating electrical components	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Repair welding equipment electrical components	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Repair electrostatic precipitators	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Repair galley equipment	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Repair laundry equipment	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Repair Programmable Logic Controllers (PLC)	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Repair sensing and control electrical devices	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Replace soldered electrical connections	<i>Equipment Selection Technology Design</i>	<i>Arm-Hand Steadiness Finger Dexterity</i>
E4	CORE	Solder electrical connections	<i>Equipment Selection Technology Design</i>	<i>Arm-Hand Steadiness Finger Dexterity</i>
E5	CORE	Test alarm and indicating systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Auditory Attention Manual Dexterity</i>
E4	CORE	Test electrically operated valve components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test ultrasonic cleaner components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Test control panel operation	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test air compressor electrical components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test air conditioning electrical components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test Collection, Holding, and Transfer (CHT) electrical components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test dehydrator electrical components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test distilling plant electrical components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test refrigeration electrical components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test ships heating electrical components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test welding equipment electrical components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>

E5	CORE	Test electrical panels	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Manual Dexterity</i>
E4	CORE	Test electrostatic precipitators	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Manual Dexterity</i>
E4	CORE	Test laundry equipment	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Manual Dexterity</i>
E4	CORE	Test Programmable Logic Controllers (PLC)	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Manual Dexterity</i>
E4	CORE	Test sensing and control electrical devices	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Manual Dexterity</i>
E5	CORE	Troubleshoot alarm and indicating systems	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E5	CORE	Troubleshoot atmosphere control equipment	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot electrically operated valve components	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot ultrasonic cleaner components	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E5	CORE	Troubleshoot electrical components	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot air compressor electrical components	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot air conditioning electrical components	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot Collection, Holding, and Transfer (CHT) system electrical components	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot dehydrator electrical components	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot distilling plant electrical components	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot refrigeration electrical components	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot ships heating electrical components	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot welding equipment electrical components	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot electrostatic precipitators	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E5	CORE	Troubleshoot galley equipment	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot laundry equipment	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot Programmable Logic Controllers (PLC)	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot sensing and control electrical devices	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>

CASUALTY CONTROL

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Combat battery well casualties	<i>Equipment Selection Judgment and Decision Making</i>	<i>Deductive Reasoning Reaction Time</i>
E4	CORE	Combat engineering plant casualties	<i>Equipment Selection Judgment and Decision Making</i>	<i>Deductive Reasoning Reaction Time</i>
E4	CORE	Combat reactor plant casualties	<i>Equipment Selection Judgment and Decision Making</i>	<i>Deductive Reasoning Reaction Time</i>
E4	CORE	Combat submarine hydraulic rupture casualties	<i>Equipment Selection Judgment and Decision Making</i>	<i>Deductive Reasoning Reaction Time</i>
E4	CORE	Combat submarine propulsion plant casualties	<i>Equipment Selection Judgment and Decision Making</i>	<i>Deductive Reasoning Reaction Time</i>
E4	CORE	Combat submarine toxic gas casualties	<i>Equipment Selection Judgment and Decision Making</i>	<i>Deductive Reasoning Reaction Time</i>
E4	CORE	Combat submarine weapons casualties	<i>Equipment Selection Judgment and Decision Making</i>	<i>Deductive Reasoning Reaction Time</i>
E4	CORE	Identify and isolate deranged or damaged electrical equipment	<i>Complex Problem Solving Critical Thinking</i>	<i>Originality Deductive Reasoning</i>
E4	CORE	Operate submarine salvage systems	<i>Operation and Control Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E4	CORE	Repair deranged or damaged electrical equipment	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Test deranged or damaged electrical equipment	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Treat victims of radiation poisoning	<i>Judgment and Decision Making Service Orientation</i>	<i>Deductive Reasoning Memorization</i>
E4	CORE	Troubleshoot deranged or damaged electrical equipment	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>

CIRCUIT BREAKERS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust circuit breaker operating mechanisms	<i>Systems Evaluation Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E4	CORE	Clean circuit breaker contact surfaces	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean circuit breaker operating mechanisms	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Inspect circuit breaker auxiliary contacts	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect circuit breaker contact surfaces	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect circuit breaker operating mechanisms	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect circuit breaker wiring and connections	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>

E5	CORE	Repair circuit breakers	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Test circuit breaker operating mechanisms	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Test circuit breakers	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>

ELECTRICAL INSTALLATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Clean grounding straps	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Conduct shore power ground checks	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Problem Sensitivity Written Comprehension</i>
E4	CORE	Fabricate shore power cables	<i>Equipment Selection Technology Design</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E4	CORE	Inspect grounding straps	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect shore power cables	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Install permanent cables	<i>Equipment Selection Installation</i>	<i>Trunk Strength Manual Dexterity</i>
E4	CORE	Install shore power cables	<i>Equipment Selection Installation</i>	<i>Trunk Strength Manual Dexterity</i>
E4	CORE	Remove shore power cables	<i>Coordination Equipment Selection</i>	<i>Trunk Strength Manual Dexterity</i>
E4	CORE	Repair and replace grounding straps	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Test grounding straps	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test shore power cables	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>

HOUSEKEEPING AND MACHINERY ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Analyze submarine machinery vibration analysis data	<i>Judgment and Decision Making Systems Analysis</i>	<i>Deductive Reasoning Speed of Closure</i>
E4	CORE	Correct housekeeping deficiencies	<i>Coordination Judgment and Decision Making</i>	<i>Inductive Reasoning Deductive Reasoning</i>
E4	CORE	Correct sound silencing deficiencies	<i>Coordination Judgment and Decision Making</i>	<i>Inductive Reasoning Deductive Reasoning</i>
E4	CORE	Operate machinery vibration analysis equipment	<i>Operation and Control Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E4	CORE	Perform sound silencing surveys	<i>Reading Comprehension Writing</i>	<i>Written Comprehension Written Expression</i>

LIGHTING SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Clean lighting system components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Inspect lighting system components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E5	CORE	Repair lighting system components	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Test lighting system components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Troubleshoot lighting system components	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>

MOTORS AND GENERATORS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust and align brush rigging assemblies	<i>Systems Evaluation Operation Monitoring</i>	<i>Arm-Hand Steadiness Finger Dexterity</i>
E4	CORE	Adjust brush spring tension	<i>Systems Evaluation Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E5	CORE	Adjust motor controller operating set points and limits	<i>Systems Evaluation Operation Monitoring</i>	<i>Control Precision Speed of Limb Movement</i>
E5	CORE	Adjust motor controller standby features	<i>Systems Evaluation Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E4	CORE	Clean brush rigging assemblies	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean Alternating Current (AC) motor components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean Direct Current (DC) generator components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean Direct Current (DC) motor components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean motor controller cabinets	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean motor controller operating mechanisms	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Inspect brush rigging assemblies	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect Alternating Current (AC) motor components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect Direct Current (DC) generator components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect Direct Current (DC) motor components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect motor controller operating mechanisms	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>

E4	CORE	Inspect motor controller wiring and connections	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Operate Emergency Propulsion Motors (EPM)	<i>Operation and Control</i>	<i>Arm-Hand Steadiness</i>
			<i>Operation Monitoring</i>	<i>Manual Dexterity</i>
E4	CORE	Operate Secondary Propulsion Motors (SPM)	<i>Operation and Control</i>	<i>Arm-Hand Steadiness</i>
			<i>Operation Monitoring</i>	<i>Manual Dexterity</i>
E5	CORE	Perform emergency diesel generator maintenance	<i>Equipment Maintenance</i>	<i>Arm-Hand Steadiness</i>
			<i>Equipment Selection</i>	<i>Manual Dexterity</i>
E4	CORE	Perform motor generator maintenance	<i>Equipment Maintenance</i>	<i>Arm-Hand Steadiness</i>
			<i>Equipment Selection</i>	<i>Manual Dexterity</i>
E5	CORE	Perform turbine generator maintenance	<i>Equipment Maintenance</i>	<i>Arm-Hand Steadiness</i>
			<i>Equipment Selection</i>	<i>Manual Dexterity</i>
E4	CORE	Repair Alternating Current (AC) motor components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Repair Direct Current (DC) generator components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Repair Direct Current (DC) motor components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E5	CORE	Repair emergency propulsion systems	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E5	CORE	Repair motor controllers	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E5	CORE	Repair secondary propulsion systems	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Seat brushes	<i>Equipment Selection</i>	<i>Arm-Hand Steadiness</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Test Alternating Current (AC) motor components	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E4	CORE	Test Direct Current (DC) generator components	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E4	CORE	Test Direct Current (DC) motor components	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test emergency diesel generators	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test emergency propulsion systems	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test motor generators	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test secondary propulsion systems	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test turbine generators	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E4	CORE	Troubleshoot Alternating Current (AC) motor components	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>
E4	CORE	Troubleshoot Direct Current (DC) generator components	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>

E4	CORE	Troubleshoot Direct Current (DC) motor components <i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E5	CORE	Troubleshoot emergency propulsion systems <i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E5	CORE	Troubleshoot secondary propulsion systems <i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>

POWER DISTRIBUTION

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Analyze shutdown electric plant trends	<i>Judgment and Decision Making</i> <i>Systems Analysis</i>	<i>Deductive Reasoning</i> <i>Speed of Closure</i>
E4	CORE	Clean Automatic Bus Transfer (ABT) devices	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean battery cell surfaces	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean circuit breaker cabinets	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean Arc-Fault Detector (AFD) components	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean Manual Bus Transfer (MBT) devices	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean switchboard components	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean switchboard interiors	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E5	CORE	Conduct submarine battery test discharges	<i>Equipment Maintenance</i> <i>Operation Monitoring</i>	<i>Problem Sensitivity</i> <i>Written Comprehension</i>
E5	CORE	Conduct switchboard testing	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Written Comprehension</i>
E4	CORE	Inspect Automatic Bus Transfer (ABT) devices	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect Arc-Fault Detector (AFD) components	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect Manual Bus Transfer (MBT) devices	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect switchboard components	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Install submarine battery cell jumpers	<i>Equipment Selection</i> <i>Installation</i>	<i>Trunk Strength</i> <i>Manual Dexterity</i>
E5	CORE	Maintain submarine batteries	<i>Reading Comprehension</i> <i>Equipment Maintenance</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>
E4	CORE	Maintain submarine battery support systems	<i>Reading Comprehension</i> <i>Equipment Maintenance</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>
E4	CORE	Operate coolant pumping power switchgear	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E4	CORE	Operate electric plant during reactor shutdowns	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>

E4	CORE	Operate electric plant during reactor startups	<i>Operation and Control</i>	<i>Arm-Hand Steadiness</i>
			<i>Operation Monitoring</i>	<i>Manual Dexterity</i>
E4	CORE	Operate electric plants	<i>Operation and Control</i>	<i>Arm-Hand Steadiness</i>
			<i>Operation Monitoring</i>	<i>Manual Dexterity</i>
E4	CORE	Operate emergency distribution switchboards	<i>Operation and Control</i>	<i>Arm-Hand Steadiness</i>
			<i>Operation Monitoring</i>	<i>Manual Dexterity</i>
E4	CORE	Operate Individual Cell Voltage (ICV) panels	<i>Operation and Control</i>	<i>Arm-Hand Steadiness</i>
			<i>Operation Monitoring</i>	<i>Manual Dexterity</i>
E4	CORE	Operate shutdown electric plant systems	<i>Operation and Control</i>	<i>Arm-Hand Steadiness</i>
			<i>Operation Monitoring</i>	<i>Manual Dexterity</i>
E4	CORE	Perform battery charging lineups	<i>Coordination</i>	<i>Problem Sensitivity</i>
			<i>Systems Analysis</i>	<i>Control Precision</i>
E5	CORE	Perform casualty power system operations	<i>Operation and Control</i>	<i>Trunk Strength</i>
			<i>Operation Monitoring</i>	<i>Manual Dexterity</i>
E5	CORE	Perform equalizing battery charges	<i>Coordination</i>	<i>Arm-Hand Steadiness</i>
			<i>Quality Control Analysis</i>	<i>Control Precision</i>
E5	CORE	Perform normal battery charges	<i>Coordination</i>	<i>Arm-Hand Steadiness</i>
			<i>Quality Control Analysis</i>	<i>Control Precision</i>
E4	CORE	Recover from loss of shore power	<i>Coordination</i>	<i>Deductive Reasoning</i>
			<i>Equipment Selection</i>	<i>Manual Dexterity</i>
E5	CORE	Repair Automatic Bus Transfer (ABT) devices	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E5	CORE	Repair Arc-Fault Detector (AFD) components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E5	CORE	Repair Manual Bus Transfer (MBT) devices	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E5	CORE	Repair switchboard components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Take battery cell electrolyte samples	<i>Equipment Selection</i>	<i>Arm-Hand Steadiness</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Take battery cell gravities	<i>Equipment Selection</i>	<i>Control Precision</i>
			<i>Operation Monitoring</i>	<i>Finger Dexterity</i>
E5	CORE	Test Automatic Bus Transfer (ABT) devices	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test Arc-Fault Detector (AFD) components	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test Manual Bus Transfer (MBT) devices	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Troubleshoot Automatic Bus Transfer (ABT) devices	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>
E5	CORE	Troubleshoot Arc-Fault Detector (AFD) components	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>
E5	CORE	Troubleshoot Manual Bus Transfer (MBT) devices	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>
E5	CORE	Troubleshoot submarine battery faults	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>

E5	CORE	Troubleshoot submarine battery support systems faults	<i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
----	------	---	--	---

REACTOR PLANT ASSOCIATED EQUIPMENT

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Analyze shutdown reactor plant trends	<i>Judgment and Decision Making</i> <i>Systems Analysis</i>	<i>Deductive Reasoning</i> <i>Speed of Closure</i>
E5	CORE	Check discharge boundary valves prior to submarine maintenance or evolutions	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Check primary valve positions	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Classify primary valves	<i>Reading Comprehension</i> <i>Systems Analysis</i>	<i>Written Comprehension</i> <i>Written Expression</i>
E4	CORE	Clean Interior Communications (IC) systems	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Conduct evolutions on systems that could cause overboard discharge	<i>Systems Analysis</i> <i>Operation and Control</i>	<i>Problem Sensitivity</i> <i>Written Comprehension</i>
E4	CORE	Conduct primary valve operation radiological surveys	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Written Comprehension</i>
E4	CORE	Control access to Radiological Controlled Areas (RCA)	<i>Speaking</i> <i>Writing</i>	<i>Oral Expression</i> <i>Written Expression</i>
E5	CORE	Control maintenance that affects remote operability	<i>Speaking</i> <i>Equipment Maintenance</i>	<i>Oral Expression</i> <i>Time Sharing</i>
E4	CORE	Disestablish Radiological Controlled Areas (RCA)	<i>Speaking</i> <i>Writing</i>	<i>Oral Expression</i> <i>Written Expression</i>
E4	CORE	Establish Radiological Controlled Areas (RCA)	<i>Speaking</i> <i>Writing</i>	<i>Oral Expression</i> <i>Written Expression</i>
E4	CORE	Issue self-indicating pocket dosimeters	<i>Management of Material Resources</i> <i>Operation Monitoring</i>	<i>Finger Dexterity</i> <i>Written Expression</i>
E4	CORE	Maintain Radiological Controlled Area (RCA) records	<i>Reading Comprehension</i> <i>Writing</i>	<i>Written Comprehension</i> <i>Written Expression</i>
E4	CORE	Operate discharge boundary valves	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E4	CORE	Operate primary valves	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E5	CORE	Operate shutdown reactor plant systems	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E4	CORE	Perform Radiological Controlled Area (RCA) casualty surveys	<i>Judgment and Decision Making</i> <i>Writing</i>	<i>Written Comprehension</i> <i>Written Expression</i>
E4	CORE	Perform reactor plant valve lineups	<i>Coordination</i> <i>Quality Control Analysis</i>	<i>Arm-Hand Steadiness</i> <i>Control Precision</i>

SHIP SECURITY

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Employ shipboard security engagement tactics below decks	<i>Active Learning</i> <i>Learning Strategies</i>	<i>Gross Body Coordination</i> <i>Multi-limb Coordination</i>

E4	CORE	Monitor spaces for security below decks	<i>Time Management</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Spatial Orientation</i>
----	------	---	--	--

STEAM PLANT ASSOCIATED EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust hotwell level control system set points	<i>Systems Evaluation</i> <i>Operation Monitoring</i>	<i>Auditory Attention</i> <i>Reaction Time</i>
E4	CORE	Adjust salinity indicating system set points	<i>Systems Evaluation</i> <i>Operation Monitoring</i>	<i>Auditory Attention</i> <i>Reaction Time</i>
E4	CORE	Adjust temperature monitoring system set points	<i>Systems Evaluation</i> <i>Operation Monitoring</i>	<i>Auditory Attention</i> <i>Reaction Time</i>
E4	CORE	Analyze main engine parameters for pressure and temperature trends	<i>Judgment and Decision Making</i> <i>Systems Analysis</i>	<i>Deductive Reasoning</i> <i>Speed of Closure</i>
E5	CORE	Clean generator governor electrical components	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean hotwell level control system components	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean salinity cells	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean salinity indicating panels	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean shaft speed sensing, indication, and Engine Order Telegraph (EOT) components	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean temperature monitoring panels	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean vent fog precipitators	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E5	CORE	Inspect generator governor system electrical components	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect hotwell level control systems	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect salinity indicating systems	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect shaft speed sensing, indication, and Engine Order Telegraph (EOT) components	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect temperature monitoring systems	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect vent fog precipitators	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Operate main engines	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E4	CORE	Operate salinity indicating systems	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E4	CORE	Operate temperature monitoring systems	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E5	CORE	Repair generator governor system electrical components	<i>Repairing</i> <i>Equipment Selection</i>	<i>Finger Dexterity</i> <i>Near Vision</i>

E5	CORE	Repair hotwell level control systems	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Repair salinity indicating systems	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Repair shaft speed sensing, indication, and Engine Order Telegraph (EOT) components	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Repair temperature monitoring systems	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Repair vent fog precipitators	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Test generator governor electrical components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Test hotwell level control systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Test salinity indicating systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test shaft speed sensing, indication, and Engine Order Telegraph (EOT) components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Test temperature monitoring systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test vent fog precipitators	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Troubleshoot generator governor electrical components	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E5	CORE	Troubleshoot hotwell level control systems	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E5	CORE	Troubleshoot salinity indicating systems	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E4	CORE	Troubleshoot shaft speed sensing, indication, and Engine Order Telegraph (EOT) components	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E5	CORE	Troubleshoot temperature monitoring systems	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E4	CORE	Troubleshoot vent fog precipitators	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>

TECHNICAL ADMINISTRATION

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Conduct submarine pre-underway checks	<i>Negotiation Time Management</i>	<i>Problem Sensitivity Written Comprehension</i>
E5	CORE	Create Quality Assurance (QA) packages	<i>Reading Comprehension Writing</i>	<i>Written Comprehension Written Expression</i>
E5	CORE	Maintain submarine battery books	<i>Reading Comprehension Writing</i>	<i>Written Comprehension Written Expression</i>
E5	CORE	Manage performance data collection	<i>Reading Comprehension Writing</i>	<i>Written Comprehension Written Expression</i>
E5	CORE	Perform Quality Assurance (QA) testing	<i>Operation Monitoring Quality Control Analysis</i>	<i>Written Comprehension Written Expression</i>

E4	CORE	Perform reactor plant component tag outs	<i>Reading Comprehension</i> <i>Writing</i>	<i>Written Comprehension</i> <i>Written Expression</i>
E5	CORE	Perform remote operability checklists	<i>Reading Comprehension</i> <i>Writing</i>	<i>Written Comprehension</i> <i>Written Expression</i>
E4	CORE	Safeguard Naval Nuclear Propulsion Information (NNPI)	<i>Reading Comprehension</i> <i>Writing</i>	<i>Information Ordering</i> <i>Written Comprehension</i>

Job Title**Submarine Propulsion Plant Electrical Supervisor****Job Code****003785****Job Family**

Production

NOC

5100-8013.00

Short Title (30 Characters)

SUB PROPULSION PLANT ELECT SUP

Short Title (10 Characters)

SS PPE SUP

Pay Plan

Enlisted

Career Field

EM(NUC)

Proficiency Level

J

Other Relationships and Rules:

NEC 3364

Job Description

Submarine Propulsion Plant Electrical Supervisors perform advanced electrical distribution operations and apply advanced level maintenance practices to electrical distribution systems and electrical generators. They supervise operations, maintenance, and training for personnel assigned to the electrical division. They draft correspondence and develop administrative programs to support the division. Electrical Supervisors perform the critical work functions required to move naval tactical forces, repair and maintain equipment, train forces and personnel, and perform consequence management.

DoD Relationship**Title and Group:**Nuclear Power
166**Code and Area:**166100
16**O*NET Relationship****Title and SOC Code:**Power Plant Operators
51-8013.00**Name and Family Code:**Production
51**AUXILIARY ELECTRICAL EQUIPMENT****Paygrade**

E6

Task Type

CORE

Task Statements

Repair control panels

SkillsRepairing
Equipment Selection**Abilities**Finger Dexterity
Near Vision

E6

CORE

Troubleshoot control panels

Troubleshooting
Complex Problem SolvingDeductive Reasoning
Fluency of Ideas

E6

CORE

Troubleshoot electrical circuits

Troubleshooting
Complex Problem SolvingDeductive Reasoning
Fluency of Ideas**CASUALTY CONTROL****Paygrade**

E6

Task Type

CORE

Task Statements

Coordinate shutdown watch section casualty operations

Coordination
Judgment and Decision Making**Abilities**Inductive Reasoning
Deductive Reasoning**CIRCUIT BREAKERS****Paygrade**

E6

Task Type

CORE

Task Statements

Test circuit breakers

SkillsOperation Monitoring
Quality Control Analysis**Abilities**Problem Sensitivity
Manual Dexterity

E6

CORE

Troubleshoot circuit breakers

Troubleshooting
Complex Problem SolvingDeductive Reasoning
Fluency of Ideas**HOUSEKEEPING AND MACHINERY ANALYSIS****Paygrade**

E5

Task Type

CORE

Task Statements

Perform housekeeping surveys

SkillsReading Comprehension
Writing**Abilities**Written Comprehension
Written Expression**MOTORS AND GENERATORS****Paygrade**

E6

Task Type

CORE

Task Statements

Repair emergency diesel generators

SkillsRepairing
Equipment Selection**Abilities**Finger Dexterity
Near Vision

E6	CORE	Repair motor generators	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E6	CORE	Repair turbine generators	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E6	CORE	Test motor controller operation	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E6	CORE	Troubleshoot emergency diesel generators	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E6	CORE	Troubleshoot motor controllers	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E6	CORE	Troubleshoot motor generators	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E6	CORE	Troubleshoot turbine generators	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>

POWER DISTRIBUTION

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Supervise submarine battery operations	<i>Equipment Maintenance Monitoring</i>	<i>Deductive Reasoning Inductive Reasoning</i>
E6	CORE	Troubleshoot switchboard components	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>

REACTOR PLANT ASSOCIATED EQUIPMENT

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Verify conditions for prevention of inadvertent discharges	<i>Reading Comprehension Operation and Control</i>	<i>Information Ordering Time Sharing</i>

TECHNICAL ADMINISTRATION

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Audit Quality Assurance (QA) packages	<i>Quality Control Analysis Reading Comprehension</i>	<i>Written Comprehension Written Expression</i>
E6	CORE	Conduct remote operability training	<i>Instructing Speaking</i>	<i>Oral Expression Written Expression</i>
E6	CORE	Review Quality Assurance (QA) packages	<i>Reading Comprehension Writing</i>	<i>Written Comprehension Written Expression</i>
E6	CORE	Supervise electrical division maintenance	<i>Equipment Maintenance Monitoring</i>	<i>Deductive Reasoning Inductive Reasoning</i>

Job Title**Submarine Propulsion Plant Electrical Manager****Job Code****003793****Job Family**

Production

NOC

5100-8013.00

Short Title (30 Characters)

SUB PROPULSION PLANT ELECT MGR

Short Title (10 Characters)

SS PPE MGR

Pay Plan

Enlisted

Career Field

EM(NUC)

Proficiency Level

M

Other Relationships and Rules:

NEC 3364

Job Description

Submarine Propulsion Plant Electrical Managers manage operations, maintenance, and training for personnel assigned to electrical division and/or engineering department. They coordinate the departmental electrical safety program. They review divisional and/or departmental correspondence and perform audits of divisional and/or departmental programs. Electrical Managers performs the critical work functions required to train forces and personnel, repair and maintain equipment, move naval tactical forces, and perform consequence management.

DoD Relationship**Title and Group:**Nuclear Power
166**Code and Area:**166100
16**O*NET Relationship****Title and SOC Code:**Power Plant Operators
51-8013.00**Name and Family Code:**Production
51**CASUALTY CONTROL****Paygrade**

E7

Task Type

CORE

Task Statements

Supervise casualty electrical distribution operations

SkillsEquipment Maintenance
Monitoring**Abilities**Deductive Reasoning
Inductive Reasoning**ELECTRICAL INSTALLATIONS****Paygrade**

E7

Task Type

CORE

Task Statements

Coordinate equipment modifications

SkillsInstallation
Coordination**Abilities**Visualization
Deductive Reasoning**TECHNICAL ADMINISTRATION****Paygrade**

E7

Task Type

CORE

Task Statements

Audit electrical division records

SkillsQuality Control Analysis
Reading Comprehension**Abilities**Written Comprehension
Written Expression

E7

CORE

Audit engineering department records

Quality Control Analysis
Reading ComprehensionWritten Comprehension
Written Expression

E7

CORE

Supervise Quality Assurance (QA) testing program

Equipment Maintenance
MonitoringDeductive Reasoning
Inductive Reasoning

Job Title**Surface Propulsion Plant Electrical Operator****Job Code****003778****Job Family**

Production

NOC

51-8013.00

Short Title (30 Characters)

SUR PROPULSION PLANT ELECT OP

Short Title (10 Characters)

SW PPE OP

Pay Plan

Enlisted

Career Field

EM(NUC)

Proficiency Level

A/J

Other Relationships and Rules:

NEC 3384

Job Description

Surface Propulsion Plant Electrical Operators perform operations and basic preventive maintenance of electrical distribution systems, motors and controllers, electrical generators, lighting systems, alarm and indicating systems, machinery vibration analysis equipment, throttle control systems, and other electrical and electronic support equipment. They possess a thorough understanding of reactor, electrical, and mechanical theory involved in the operation of nuclear reactors, steam plants, and auxiliary equipment. They possess detailed knowledge of chemistry and radiological controls associated with the nuclear reactor. They also supervise operations of the shutdown reactor plant. Electrical Operators perform the critical work functions required to repair and maintain equipment and move naval tactical forces.

DoD Relationship**Title and Group:**Nuclear Power
166**Code and Area:**166100
16**O*NET Relationship****Title and SOC Code:**Power Plant Operators
51-8013.00**Name and Family Code:**Production
51**AUXILIARY ELECTRICAL EQUIPMENT****Paygrade**

E4

Task Type

CORE

Task Statements

Adjust alarm set points

SkillsSystems Evaluation
Operation Monitoring**Abilities**Auditory Attention
Reaction Time

E5

CORE

Adjust control panel interlocks

Systems Evaluation
Operation MonitoringManual Dexterity
Reaction Time

E5

CORE

Adjust control panel operating mechanisms

Systems Evaluation
Operation MonitoringArm-Hand Steadiness
Reaction Time

E5

CORE

Adjust control panel operating set points and limits

Systems Evaluation
Operation MonitoringAuditory Attention
Reaction Time

E4

CORE

Clean alarm and indicating panels

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean electrically operated valve components

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean control panel cabinets

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean control panel operating mechanisms

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean air compressor electrical components

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean distilling plant electrical components

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean electrical panel components

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean electrical panel interiors

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean electrostatic precipitators

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4

CORE

Clean Programmable Logic Controllers (PLC)

Equipment Maintenance
Management of Material ResourcesNear Vision
Finger Dexterity

E4	CORE	Clean sensing and control electrical devices	<i>Equipment Maintenance</i>	<i>Near Vision</i>
E4	CORE	Clean soldered electrical connections	<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Inspect alarm and indicating systems	<i>Equipment Maintenance</i>	<i>Near Vision</i>
E4	CORE	Inspect electrically operated valve components	<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Inspect control panel operating mechanisms	<i>Operation Monitoring</i>	<i>Near Vision</i>
E4	CORE	Inspect control panel wiring and connections	<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect air compressor electrical components	<i>Operation Monitoring</i>	<i>Near Vision</i>
E4	CORE	Inspect distilling plant electrical components	<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect electrical panel components	<i>Operation Monitoring</i>	<i>Near Vision</i>
E4	CORE	Inspect electrostatic precipitators	<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect Programmable Logic Controllers (PLC)	<i>Operation Monitoring</i>	<i>Near Vision</i>
E4	CORE	Inspect sensing and control electrical devices	<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect soldered electrical connections	<i>Operation Monitoring</i>	<i>Near Vision</i>
E4	CORE	Operate alarm and indicating systems	<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Operate Interior Communications (IC) equipment	<i>Operation and Control</i>	<i>Hearing Sensitivity</i>
E5	CORE	Repair alarm and indicating systems	<i>Operation Monitoring</i>	<i>Near Vision</i>
E4	CORE	Repair electrically operated valve components	<i>Repairing</i>	<i>Finger Dexterity</i>
E6	CORE	Repair control panels	<i>Equipment Selection</i>	<i>Near Vision</i>
E5	CORE	Repair electrical circuits	<i>Repairing</i>	<i>Finger Dexterity</i>
E5	CORE	Repair electrical components	<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Repair air compressor electrical components	<i>Repairing</i>	<i>Finger Dexterity</i>
E4	CORE	Repair distilling plant electrical components	<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Repair electrostatic precipitators	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>

E5	CORE	Repair Interior Communications (IC) systems	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Repair Programmable Logic Controllers (PLC)	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Repair sensing and control electrical devices	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E5	CORE	Repair throttle control electrical systems	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Replace soldered electrical connections	<i>Equipment Selection</i>	<i>Arm-Hand Steadiness</i>
			<i>Technology Design</i>	<i>Finger Dexterity</i>
E4	CORE	Solder electrical connections	<i>Equipment Selection</i>	<i>Arm-Hand Steadiness</i>
			<i>Technology Design</i>	<i>Finger Dexterity</i>
E5	CORE	Test alarm and indicating systems	<i>Operation Monitoring</i>	<i>Auditory Attention</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E4	CORE	Test electrically operated valve components	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test control panels	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E4	CORE	Test air compressor electrical components	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E4	CORE	Test distilling plant electrical components	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test electrical panels	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E4	CORE	Test electrostatic precipitators	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E4	CORE	Test Programmable Logic Controllers (PLC)	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E4	CORE	Test sensing and control electrical devices	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test throttle control electrical systems	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Troubleshoot alarm and indicating systems	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>
E4	CORE	Troubleshoot electrically operated valve components	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>
E5	CORE	Troubleshoot electrical components	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>
E4	CORE	Troubleshoot air compressor electrical components	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>
E4	CORE	Troubleshoot distilling plant electrical components	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>
E4	CORE	Troubleshoot electrostatic precipitators	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>
E5	CORE	Troubleshoot Interior Communications (IC) systems	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>

E4	CORE	Troubleshoot Programmable Logic Controllers (PLC) <i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E4	CORE	Troubleshoot sensing and control electrical devices <i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>
E5	CORE	Troubleshoot throttle control electrical systems <i>Troubleshooting</i> <i>Complex Problem Solving</i>	<i>Deductive Reasoning</i> <i>Fluency of Ideas</i>

CASUALTY CONTROL

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Combat engineering plant casualties	Equipment Selection Judgment and Decision Making	Deductive Reasoning Reaction Time
E4	CORE	Combat reactor plant casualties	Equipment Selection Judgment and Decision Making	Deductive Reasoning Reaction Time
E4	CORE	Identify and isolate deranged or damaged electrical equipment	Complex Problem Solving Critical Thinking	Originality Deductive Reasoning
E4	CORE	Repair deranged or damaged electrical equipment	Repairing Equipment Selection	Finger Dexterity Near Vision
E4	CORE	Test deranged or damaged electrical equipment	Operation Monitoring Quality Control Analysis	Problem Sensitivity Manual Dexterity
E4	CORE	Troubleshoot deranged or damaged electrical equipment	Troubleshooting Complex Problem Solving	Deductive Reasoning Fluency of Ideas

CIRCUIT BREAKERS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust circuit breaker operating mechanisms	<i>Systems Evaluation</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E4	CORE	Clean circuit breaker contact surfaces	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean circuit breaker operating mechanisms	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Inspect circuit breaker auxiliary contacts	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect circuit breaker contact surfaces	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect circuit breaker operating mechanisms	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect circuit breaker wiring and connections	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Repair circuit breakers	<i>Repairing</i> <i>Equipment Selection</i>	<i>Finger Dexterity</i> <i>Near Vision</i>
E5	CORE	Test circuit breaker operating mechanisms	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Manual Dexterity</i>
E5	CORE	Test circuit breakers	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Manual Dexterity</i>

ELECTRICAL INSTALLATIONS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Clean grounding straps	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Conduct shore power ground checks	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Problem Sensitivity Written Comprehension</i>
E4	CORE	Inspect grounding straps	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect shore power cables	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Install permanent cables	<i>Equipment Selection Installation</i>	<i>Trunk Strength Manual Dexterity</i>
E4	CORE	Install shore power cables	<i>Equipment Selection Installation</i>	<i>Trunk Strength Manual Dexterity</i>
E4	CORE	Remove shore power cables	<i>Coordination Equipment Selection</i>	<i>Trunk Strength Manual Dexterity</i>
E4	CORE	Repair and replace grounding straps	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Test grounding straps	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test shore power cables	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>

HOUSEKEEPING AND MACHINERY ANALYSIS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Operate machinery vibration analysis equipment	<i>Operation and Control Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>

LIGHTING SYSTEMS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Clean lighting system components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Inspect lighting system components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E5	CORE	Repair lighting system components	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Test lighting system components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Troubleshoot lighting system components	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>

MOTORS AND GENERATORS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust and align brush rigging assemblies	<i>Systems Evaluation Operation Monitoring</i>	<i>Arm-Hand Steadiness Finger Dexterity</i>

E4	CORE	Adjust brush spring tension	<i>Systems Evaluation</i>	<i>Arm-Hand Steadiness</i>
			<i>Operation Monitoring</i>	<i>Manual Dexterity</i>
E5	CORE	Adjust motor controller operating set points and limits	<i>Systems Evaluation</i>	<i>Control Precision</i>
			<i>Operation Monitoring</i>	<i>Speed of Limb Movement</i>
E5	CORE	Adjust motor controller standby features	<i>Systems Evaluation</i>	<i>Arm-Hand Steadiness</i>
			<i>Operation Monitoring</i>	<i>Manual Dexterity</i>
E4	CORE	Clean brush rigging assemblies	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean Alternating Current (AC) motor components	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean motor controller cabinets	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Clean motor controller operating mechanisms	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Inspect brush rigging assemblies	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect Alternating Current (AC) motor components	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect motor controller operating mechanisms	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E4	CORE	Inspect motor controller wiring and connections	<i>Operation Monitoring</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
E5	CORE	Perform emergency diesel generator maintenance	<i>Equipment Maintenance</i>	<i>Arm-Hand Steadiness</i>
			<i>Equipment Selection</i>	<i>Manual Dexterity</i>
E4	CORE	Perform motor generator maintenance	<i>Equipment Maintenance</i>	<i>Arm-Hand Steadiness</i>
			<i>Equipment Selection</i>	<i>Manual Dexterity</i>
E5	CORE	Perform turbine generator maintenance	<i>Equipment Maintenance</i>	<i>Arm-Hand Steadiness</i>
			<i>Equipment Selection</i>	<i>Manual Dexterity</i>
E4	CORE	Repair Alternating Current (AC) motor components	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E5	CORE	Repair motor controllers	<i>Repairing</i>	<i>Finger Dexterity</i>
			<i>Equipment Selection</i>	<i>Near Vision</i>
E4	CORE	Seat brushes	<i>Equipment Selection</i>	<i>Arm-Hand Steadiness</i>
			<i>Management of Material Resources</i>	<i>Finger Dexterity</i>
E4	CORE	Test Alternating Current (AC) motor components	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test emergency diesel generators	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test motor generators	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Test turbine generators	<i>Operation Monitoring</i>	<i>Problem Sensitivity</i>
			<i>Quality Control Analysis</i>	<i>Manual Dexterity</i>
E4	CORE	Troubleshoot Alternating Current (AC) motor components	<i>Troubleshooting</i>	<i>Deductive Reasoning</i>
			<i>Complex Problem Solving</i>	<i>Fluency of Ideas</i>

POWER DISTRIBUTION

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Analyze shutdown electric plant trends	<i>Judgment and Decision Making</i> <i>Systems Analysis</i>	<i>Deductive Reasoning</i> <i>Speed of Closure</i>
E4	CORE	Clean Automatic Bus Transfer (ABT) devices	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean circuit breaker cabinets	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean Arc-Fault Detector (AFD) components	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean Manual Bus Transfer (MBT) devices	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean switchboard components	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean switchboard interiors	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Conduct 4160 Volt (4160V) maintenance	<i>Equipment Maintenance</i> <i>Equipment Selection</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E5	CORE	Conduct switchboard testing	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Written Comprehension</i>
E4	CORE	Inspect Automatic Bus Transfer (ABT) devices	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect Arc-Fault Detector (AFD) components	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect Manual Bus Transfer (MBT) devices	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Inspect switchboard components	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E4	CORE	Operate coolant pumping power switchgear	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E4	CORE	Operate electric plant during reactor shutdowns	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E4	CORE	Operate electric plant during reactor startups	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E4	CORE	Operate electric plants during normal operating conditions	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E4	CORE	Operate emergency distribution switchboards	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E4	CORE	Operate propulsion plant load centers	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E5	CORE	Operate electric plant system on a shutdown reactor	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Arm-Hand Steadiness</i> <i>Manual Dexterity</i>
E5	CORE	Perform casualty power system operations	<i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Trunk Strength</i> <i>Manual Dexterity</i>
E4	CORE	Recover from loss of shore power	<i>Coordination</i> <i>Equipment Selection</i>	<i>Deductive Reasoning</i> <i>Manual Dexterity</i>

E5	CORE	Repair Automatic Bus Transfer (ABT) devices	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Repair Arc-Fault Detector (AFD) components	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Repair Manual Bus Transfer (MBT) devices	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Repair switchboard components	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Test Automatic Bus Transfer (ABT) devices	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Test components of Arc-Fault Detector (AFD) systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Test Manual Bus Transfer (MBT) devices	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Troubleshoot Automatic Bus Transfer (ABT) devices	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E5	CORE	Troubleshoot Arc-Fault Detector (AFD) components	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E5	CORE	Troubleshoot Manual Bus Transfer (MBT) devices	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>

REACTOR PLANT ASSOCIATED EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Check primary valve positions	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Classify primary valves	<i>Reading Comprehension Systems Analysis</i>	<i>Written Comprehension Written Expression</i>
E4	CORE	Clean Interior Communications (IC) systems	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean throttle control electrical systems	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Conduct system evolutions which may cause discharge overboard	<i>Systems Analysis Operation and Control</i>	<i>Problem Sensitivity Written Comprehension</i>
E4	CORE	Conduct primary valve operation radiological surveys	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Problem Sensitivity Written Comprehension</i>
E4	CORE	Control access to Radiological Controlled Areas (RCA)	<i>Speaking Writing</i>	<i>Oral Expression Written Expression</i>
E5	CORE	Control remote operability maintenance	<i>Speaking Equipment Maintenance</i>	<i>Oral Expression Time Sharing</i>
E4	CORE	Disestablish Radiological Controlled Areas (RCA)	<i>Speaking Writing</i>	<i>Oral Expression Written Expression</i>
E4	CORE	Establish Radiological Controlled Areas (RCA)	<i>Speaking Writing</i>	<i>Oral Expression Written Expression</i>
E4	CORE	Issue self-indicating pocket dosimeters	<i>Management of Material Resources Operation Monitoring</i>	<i>Finger Dexterity Written Expression</i>
E4	CORE	Maintain Radiological Controlled Area (RCA) records	<i>Reading Comprehension Writing</i>	<i>Written Comprehension Written Expression</i>

E4	CORE	Operate primary valves	<i>Operation and Control Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E5	CORE	Operate shutdown reactor plant systems	<i>Operation and Control Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E4	CORE	Perform Radiological Controlled Area (RCA) casualty surveys	<i>Judgment and Decision Making Writing</i>	<i>Written Comprehension Written Expression</i>
E4	CORE	Perform reactor plant valve line-ups	<i>Coordination Quality Control Analysis</i>	<i>Arm-Hand Steadiness Control Precision</i>

SHIP SECURITY

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Monitor spaces for security below decks	<i>Time Management Critical Thinking</i>	<i>Deductive Reasoning Spatial Orientation</i>

STEAM PLANT ASSOCIATED EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust hotwell level control system set points	<i>Systems Evaluation Operation Monitoring</i>	<i>Auditory Attention Reaction Time</i>
E4	CORE	Adjust salinity indicating system set points	<i>Systems Evaluation Operation Monitoring</i>	<i>Auditory Attention Reaction Time</i>
E4	CORE	Adjust temperature monitoring system set points	<i>Systems Evaluation Operation Monitoring</i>	<i>Auditory Attention Reaction Time</i>
E4	CORE	Analyze main engine pressure and temperature parameter trends	<i>Judgment and Decision Making Systems Analysis</i>	<i>Deductive Reasoning Speed of Closure</i>
E5	CORE	Clean generator governor electrical components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean hotwell level control components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean salinity cells	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean salinity indicating panels	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean temperature monitoring panels	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean vent fog precipitators	<i>Equipment Maintenance Management of Material Resources</i>	<i>Near Vision Finger Dexterity</i>
E5	CORE	Inspect generator governor system electrical components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect hotwell level control systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect salinity indicating systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect temperature monitoring systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E4	CORE	Inspect vent fog precipitators	<i>Operation Monitoring Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>

E4	CORE	Operate main engines	<i>Operation and Control Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E4	CORE	Operate salinity indicating systems	<i>Operation and Control Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E4	CORE	Operate temperature monitoring systems	<i>Operation and Control Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E5	CORE	Repair generator governor electrical components	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Repair hotwell level control systems	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Repair salinity indicating systems	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Repair temperature monitoring systems	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E4	CORE	Repair vent fog precipitators	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E5	CORE	Test generator governor system electrical components	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Test hotwell level control systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Test salinity indicating systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Test temperature monitoring systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E4	CORE	Test vent fog precipitators	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E5	CORE	Troubleshoot of generator governor electrical components	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E5	CORE	Troubleshoot hotwell level control systems	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E5	CORE	Troubleshoot salinity indicating systems	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E5	CORE	Troubleshoot temperature monitoring systems	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E4	CORE	Troubleshoot vent fog precipitators	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Create Quality Assurance (QA) packages	<i>Reading Comprehension Writing</i>	<i>Written Comprehension Written Expression</i>
E5	CORE	Manage performance data collection	<i>Reading Comprehension Writing</i>	<i>Written Comprehension Written Expression</i>
E5	CORE	Perform Quality Assurance (QA) testing	<i>Operation Monitoring Quality Control Analysis</i>	<i>Written Comprehension Written Expression</i>

E4	CORE	Perform reactor plant component tag outs	<i>Reading Comprehension</i> <i>Writing</i>	<i>Written Comprehension</i> <i>Written Expression</i>
E5	CORE	Perform remote operability checklists	<i>Reading Comprehension</i> <i>Writing</i>	<i>Written Comprehension</i> <i>Written Expression</i>
E4	CORE	Safeguard Naval Nuclear Propulsion Information (NNPI)	<i>Reading Comprehension</i> <i>Writing</i>	<i>Information Ordering</i> <i>Written Comprehension</i>

Job Title**Surface Propulsion Plant Electrical Supervisor****Job Code****003786****Job Family**

Production

NOC

5100-8013.00

Short Title (30 Characters)

SUR PROPULSION PLANT ELECT SUP

Short Title (10 Characters)

SW PPE SUP

Pay Plan

Enlisted

Career Field

EM(NUC)

Proficiency Level

J

Other Relationships and Rules:

NEC 3394

Job Description

Surface Propulsion Plant Electrical Supervisors perform advanced electrical distribution operations and apply advanced level maintenance practices to electrical distribution systems and electrical generators. They supervise operations, maintenance, and training for personnel assigned to the reactor electrical division. They draft correspondence and develop administrative programs to support the division. Electrical Supervisors perform the critical work functions required to move naval tactical forces, repair and maintain equipment, train forces and personnel, and perform consequence management.

DoD Relationship**Title and Group:**Nuclear Power
166**Code and Area:**166100
16**O*NET Relationship****Title and SOC Code:**Power Plant Operators
51-8013.00**Name and Family Code:**Production
51**AUXILIARY ELECTRICAL EQUIPMENT****Paygrade**

E6

Task Type

CORE

Task Statements

Troubleshoot control panels

SkillsTroubleshooting
Complex Problem Solving**Abilities**Deductive Reasoning
Fluency of Ideas

E6

CORE

Troubleshoot electrical circuits

Troubleshooting
Complex Problem SolvingDeductive Reasoning
Fluency of Ideas**CASUALTY CONTROL****Paygrade**

E6

Task Type

CORE

Task Statements

Coordinate shutdown watch section casualty operations

SkillsCoordination
Judgment and Decision Making**Abilities**Inductive Reasoning
Deductive Reasoning**CIRCUIT BREAKERS****Paygrade**

E6

Task Type

CORE

Task Statements

Test circuit breakers

SkillsOperation Monitoring
Quality Control Analysis**Abilities**Problem Sensitivity
Manual Dexterity

E6

CORE

Troubleshoot circuit breakers

Troubleshooting
Complex Problem SolvingDeductive Reasoning
Fluency of Ideas**HOUSEKEEPING AND MACHINERY ANALYSIS****Paygrade**

E6

Task Type

CORE

Task Statements

Analyze surface machinery vibration analysis data

SkillsJudgment and Decision Making
Systems Analysis**Abilities**Deductive Reasoning
Speed of Closure**MOTORS AND GENERATORS****Paygrade**

E6

Task Type

CORE

Task Statements

Repair emergency diesel generators

SkillsRepairing
Equipment Selection**Abilities**Finger Dexterity
Near Vision

E6

CORE

Repair motor generators

Repairing
Equipment SelectionFinger Dexterity
Near Vision

E6	CORE	Repair turbine generators	<i>Repairing Equipment Selection</i>	<i>Finger Dexterity Near Vision</i>
E6	CORE	Test motor controllers	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Manual Dexterity</i>
E6	CORE	Troubleshoot emergency diesel generators	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E6	CORE	Troubleshoot motor controllers	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E6	CORE	Troubleshoot motor generators	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>
E6	CORE	Troubleshoot turbine generators	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>

POWER DISTRIBUTION

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Troubleshoot switchboard components	<i>Troubleshooting Complex Problem Solving</i>	<i>Deductive Reasoning Fluency of Ideas</i>

REACTOR PLANT ASSOCIATED EQUIPMENT

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Analyze shutdown reactor plant trends	<i>Judgment and Decision Making Systems Analysis</i>	<i>Deductive Reasoning Speed of Closure</i>
E6	CORE	Verify prevention of inadvertent discharge conditions	<i>Reading Comprehension Operation and Control</i>	<i>Information Ordering Time Sharing</i>

TECHNICAL ADMINISTRATION

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Audit Quality Assurance (QA) packages	<i>Quality Control Analysis Reading Comprehension</i>	<i>Written Comprehension Written Expression</i>
E6	CORE	Conduct remote operability training	<i>Instructing Speaking</i>	<i>Oral Expression Written Expression</i>
E6	CORE	Review Quality Assurance (QA) packages	<i>Reading Comprehension Writing</i>	<i>Written Comprehension Written Expression</i>
E6	CORE	Supervise electrical division maintenance	<i>Equipment Maintenance Monitoring</i>	<i>Deductive Reasoning Inductive Reasoning</i>

Job Title**Surface Propulsion Plant Electrical Manager****Job Code****003794****Job Family**

Production

NOC

5100-8013.00

Short Title (30 Characters)

SUR PROPULSION PLANT ELECT MGR

Short Title (10 Characters)

SW PPE MGR

Pay Plan

Enlisted

Career Field

EM(NUC)

Proficiency Level

M

Other Relationships and Rules:

NEC 3394

Job Description

Surface Propulsion Plant Electrical Managers manage operations, maintenance, and training for personnel assigned to reactor electrical division and/or reactor department. They coordinate the departmental electrical safety program, review divisional and/or departmental correspondence, and perform audits of divisional and/or departmental programs. Electrical Managers perform the critical work functions required to train forces and personnel, repair and maintain equipment, move naval tactical forces, and perform consequence management.

DoD Relationship**Title and Group:**Nuclear Power
166**Code and Area:**166100
16**O*NET Relationship****Title and SOC Code:**Power Plant Operators
51-8013.00**Name and Family Code:**Production
51**CASUALTY CONTROL****Paygrade**

E7

Task Type

CORE

Task Statements

Supervise casualty electrical distribution operations

SkillsEquipment Maintenance
Monitoring**Abilities**Deductive Reasoning
Inductive Reasoning**ELECTRICAL INSTALLATIONS****Paygrade**

E7

Task Type

CORE

Task Statements

Coordinate equipment modifications

SkillsInstallation
Coordination**Abilities**Visualization
Deductive Reasoning**POWER DISTRIBUTION****Paygrade**

E7

Task Type

CORE

Task Statements

Supervise 4160 Volt (4160V) maintenance

SkillsEquipment Maintenance
Monitoring**Abilities**Deductive Reasoning
Inductive Reasoning**REACTOR PLANT ASSOCIATED EQUIPMENT****Paygrade**

E7

Task Type

CORE

Task Statements

Pre-Check discharge boundary valves

SkillsEquipment Maintenance
Quality Control Analysis**Abilities**Manual Dexterity
Written Comprehension**TECHNICAL ADMINISTRATION****Paygrade**

E7

Task Type

CORE

Task Statements

Audit electrical division records

SkillsQuality Control Analysis
Reading Comprehension**Abilities**Written Comprehension
Written Expression

E7

CORE

Audit engineering department records

Quality Control Analysis
Reading ComprehensionWritten Comprehension
Written Expression

E7

CORE

Coordinate reactor fill electrical division testing

Coordination
Judgment and Decision MakingInductive Reasoning
Deductive Reasoning

E7

CORE

Supervise Quality Assurance (QA) testing

Equipment Maintenance
MonitoringDeductive Reasoning
Inductive Reasoning